

In the Claims

Kindly add claim 38, and amend claims 17, 20, 25, 27, 28, 29, 30 and 32 as indicated below in the following listing of the claims now pending. Please note that the claims are based on the amendment filed on February 13, 2003, as renumbered by the Examiner.

Claims 1 – 15 (cancelled)

Claim 16 (previously added) A glass etching composition comprising 1 to 10 w/v % of fluoride, 20 to 80 v/v % of water and 20 to 80 v/v % of water-miscible organic solvent.

Claim 17 (currently amended) The glass etching composition as claimed in claim 16, further comprising a gelling agent that gels the glass etching composition.

Claim 18 (previously added) The glass etching composition as claimed in claim 16 or 17, further comprising sucrose as a stabilizer.

Claim 19 (previously added) The glass etching composition as claimed in claim 16 or 17, further comprising a surfactant.

Claim 20 (currently amended) The glass etching composition as claimed in claim 16 or 17, further comprising at least one selected from the group consisting of acetic acid, citric acid and phosphoric acid, and a buffer for adjusting the pH of the glass etching composition.

Claim 21 (previously added) The glass etching composition as claimed in claim 16 or 17, further comprising a dye for coloring the glass etching composition.

Claim 22 (previously added) The glass etching composition as claimed in claim 16 or 17, wherein said fluoride is at least one compound selected from the group consisting of sodium

fluoride, potassium fluoride, ammonium fluoride, sodium bifluoride, potassium bifluoride and ammonium bifluoride.

Claim 23 (previously added) The glass etching composition as claimed in claim 16 or 17, wherein said water is at least one selected from the group consisting of tap water, ion exchange water, distilled water, ground water, spring water and filtrate water.

Claim 24 (previously added) The glass etching composition as claimed in claim 16 or 17, wherein said water-miscible solvent is at least one compound selected from the group consisting of glycerin, glycol, glycol ether, and alcohol.

Claim 25 (currently amended) The glass etching composition as claimed in claim 17, wherein said gelling agent is at least one selected from the group consisting of hydroxypropyl cellulose, hydroxyethyl cellulose, methyl cellulose, carboxymethyl cellulose, and sodium carboxymethyl cellulose, ~~sodium arginate, arabic gum, tragacanth gum, xanthum gum, bentonite, veegum, gelatin, bengl gelatin,~~ polyacrylate, polyacryl amide, polyvinyl alcohol, polyvinyl pyrrolidone, polyvinyl acetate, an acrylate polymer, an isobutyl maleic acid copolymer, an acrylic acid-methacrylic acid copolymer, an acrylic acid-maleic acid copolymer and variants thereof.

Claim 26 (previously added) The glass etching composition as claimed in claim 19, wherein said surfactant is at least one compound selected from the group consisting of an anionic surfactant, a non-ionic surfactant, and a cationic surfactant.

Claim 27 (currently amended) A frosting method for frosting a glass surface by using a glass etching composition, comprising the steps of:

- (a) cleaning the glass surface with a cleaning agent and wiping the glass surface dry,
- (b) protecting the glass surface by masking a portion of the glass surface where etching is not required,
- (c) coating the glass surface with a the glass etching composition comprising 1 to 10 w/v % of fluoride, 20 to 80 v/v % of water and 20 to 80 v/v % of water-miscible organic solvent by immersing or spraying to etch the glass surface, and
- d) cleaning the glass surface again, and removing the glass etching composition and the masking therefrom.

Claim 28 (currently amended) The frosting method as claimed in claim 27 using the glass etching composition further comprising a gelling agent that gels the glass etching composition.

Claim 29 (currently amended) The frosting method as claimed in claim 27 or 28, wherein said cleaning agent is at least one selected from the group consisting of water, a soap, a household cleanser and a household detergent.

Claim 30 (currently amended) The frosting method as claimed in claim 27 ~~any one of claims 33 to 35~~, wherein said masking is made by an oily pen, an oily paint, a resin paint, an acrylic paint, a masking tape, a seal, a silk screen printing method, or other printing methods.

Claim 31 (previously added) The glass etching composition as claimed in claim 24, wherein said glycol is at least one selected from the group consisting of methyl glycol, ethyl glycol, methylene glycol, ethylene glycol, propylene glycol, dimethylene glycol, diethylene glycol, dipropylene glycol, polymethylene glycol, and polyethylene glycol.

Claim 32 (currently amended) The glass etching composition as claimed in claim 24, wherein said glycol ether is at least one selected from the group consisting of ethylene glycol monomethyl ether, ethylene glycol monoethyl ether, diethylene glycol monomethyl ether, diethylene glycol monoethyl ether, diethylene glycol monoisopropyl ether, diethylene glycol ~~monobutyl~~ monobutyl ether, dipropylene glycol monomethyl ether, dipropylene glycol monoethyl ether, dipropylene glycol monoisopropyl ether, and dipropylene glycol monobutyl ether.

Claim 33 (previously added) The glass etching composition as claimed in claim 24, wherein said alcohol is at least one selected from the group consisting of methanol, ethanol, propyl alcohol, isopropyl alcohol, butyl alcohol, isobutyl alcohol, 1,2-ethane diol, 1,2-propane diol, 1,3-propane diol, 1,4-butane diol, 1,2,3-propane triol, 1,2,6-hexane triol and sorbitol.

Claim 34 (previously added) The glass etching composition as claimed in claim 26, wherein said anionic surfactant is at least one selected from the group consisting of dodecylbenzene sodium sulfonate, alkylbenzene sodium sulfonate, lignine calcium sulfonate, perfluoroalkyl sulfonate, perfluoroalkyl carboxylate and perfluoroalkyl phosphate.

Claim 35 (previously added) The glass etching composition as claimed in claim 26, wherein said non-ionic surfactant is at least one selected from the group consisting of polyoxyethylene acetyl ether, polyoxyethylene lauryl ether, polyoxyethylene oleil ether, polyoxyethylene stearyl ether, polyoxyethylene alkyl ether, polyoxyethylene octylphenyl ether, polyoxyethylene nonylphenyl ether, sorbitan laurate, sorbitan palmitate, sorbitan oleate, sorbitan stearate, polyoxyethylene sorbitan monolaurate, polyoxyethylene sorbitan monopalmitate, polyoxyethylene sorbitan monooleate and polyoxyethylene sorbitan monostearate.

Claim 36 (previously added) The glass etching composition as claimed in claim 26, wherein said ampholytic surfactant is at least one selected from the group consisting of dimethylalkyl lbetain, an alkyl glycine, amide betaine, imidazoline, perfluoroalkylamino sulfonate or perfluoroalkyl betaine.

Claim 37 (previously added) The glass etching composition as claimed in claim 26, wherein said cationic surfactant is at least one selected from the group consisting of octadecyldimethylbenzylammonium chloride, alkyl dimethyl benzylammonium chloride, tetradecyldimethylbenzylammonium chloride, dioleyldimethylammonium chloride, octadecyltrimethylammonium chloride, alkyltrimethylammonium chloride, dodecyltrimethylammonium chloride, hexadecyltrimethylammonium chloride, an octadecylamine acetate, hexadecylamine acetate, perfluoro- alkyltrimethylammonium salt and perfluoroalkyl quaternary ammonium salt.

Claim 38 (new) The frosting method as claimed in claim 27, wherein the glass etching composition is coated by applying with a brush or squeezing from a tube.